### PATENT COOPERATION TREATY

#### From the INTERNATIONAL SEARCHING AUTHORITY

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### **PCT**

P.O. Box 230 FI-00101 Helsinki Finland		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY  (PCT Rule 43bis.1)			
		Date of mailing (day/month/year)	1 2 -05- 2005		
Applicant's or agent's file reference		FOR FURTHER AC	CTION See paragraph 2 below		
1932wo-tp	T				
International application No. International filing of PCT/FI2004/000812 31.12.2004		(day/month/year)	Priority date (day/month/year) 23.01.2004		
International Patent Classification (IPC) F02M 45/12	or both national classific	ation and IPC			
Applicant Wärtsilä Finland Oy e	et al				
1 This opinion contains indications rela	eting to the following ite				
<ol> <li>This opinion contains indications relating to the following items:</li> <li>Box No. I Basis of the opinion</li> </ol>					
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain docume	ents cited				
Box No. VII Certain defects	in the international appli	cation			
Box No. VIII Certain observa	tions on the international	l application			
International Preliminary Examining Authority other than this one to be IP written opinions of this International If this opinion is, as provided above,	Authority ("IPEA") exce EA and the chosen IPEA Searching Authority will considered to be a writte appropriate, with amend expiration of 22 months f SA/220.	ept that this does not ap has notified the Internal not be so considered. In opinion of the IPEA, liments, before the expi	national Bureau under Rule 66.1 bis(b) that the applicant is invited to submit to the ration of 3 months from the date of mailing		
Name and mailing address of the ISA/SE	<u> </u>	Authorized officer			

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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/FI2004/000812

Bo	x No. I Basis of this opinion	
1.	With regard to the language, this opinion has been established on the basis of the international application in the lawhich it was filed, unless otherwise indicated under this item.  This opinion has been established on the basis of a translation from the original language into the following , which is the language of a translation furnished for the purposes of international search (under Fand 23.1(b)).	language,
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessar claimed invention, this opinion has been established on the basis of:  a. type of material  a sequence listing  table(s) related to the sequence listing	y to the
	b. format of material in written format in computer readable form	
	c. time of filing/furnishing  contained in the international application as filed.  filed together with the international application in computer readable form.  furnished subsequently to this Authority for the purposes of search.	·
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating there filed or furnished, the required statements that the information in the subsequent or additional copies is id that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	entical to
4.	Additional comments:	
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/FI2004/000812

		oned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial cability; citations and explanations supporting such statement		ve step or industrial
1. Stateme	nt			
Nove	elty (N)	Claims	1 - 16	YES
		Claims		NO
Inventive step (IS)		Claims	1 - 16	YES
		Claims		NO
Industrial applicability (IA)		Claims	1 - 16	YES
		Claims		NO

### 2. Citations and explanations:

The documents cited in the International Search Report represent the prior art. The claimed invention stated in claims 1 - 16 is not anticipated by these documents. None of the documents or any relevant combination of them reveals a device and a method for fuel injection rate shaping as described by these claims.

According to the arguments stated above, the invention claimed in claims 1 - 16 is novel and considered to involve an inventive step. The industrial applicability of the claimed invention is obvious.